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## NOTICE OF ALLOWANCE AND FEE(S) DUE

62464

7590

08/06/2010

BEYER LAW GROUP LLP/APPLE INC.  
P.O. BOX 1687  
CUPERTINO, CA 95015-1687

EXAMINER

TAN, ALVIN H

ART UNIT

PAPER NUMBER

2173

DATE MAILED: 08/06/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,251	04/14/2004	Ian R. Ollmann	APLIP301/P3248	8088

TITLE OF INVENTION: METHODS AND APPARATUS FOR DISPLAYING RELATIVE EMPHASIS IN A FILE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to:** **Mail** **Mail Stop ISSUE FEE**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

62464 7590 08/06/2010  
**BEYER LAW GROUP LLP/APPLE INC.**  
**P.O. BOX 1687**  
**CUPERTINO, CA 95015-1687**

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,251	04/14/2004	Ian R. Ollmann	APL1P301/P3248	8088

**TITLE OF INVENTION: METHODS AND APPARATUS FOR DISPLAYING RELATIVE EMPHASIS IN A FILE**

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nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/08/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
TAN, ALVIN H	2173	715-792000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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62464	7590	08/06/2010	EXAMINER	
BEYER LAW GROUP LLP/APPLE INC. P.O. BOX 1687 CUPERTINO, CA 95015-1687			TAN, ALVIN H	
			ART UNIT	PAPER NUMBER

2173

DATE MAILED: 08/06/2010

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 685 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 685 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

**Notice of Allowability****Application No.**

10/825,251

**Examiner**

ALVIN H. TAN

**Applicant(s)**

OLLMANN ET AL.

**Art Unit**

2173

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/18/10.
2. ☒ The allowed claim(s) is/are 49 and 51-69.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Marc Hanish on 8/2/10.

2. The application has been amended as follows:

Please cancel claim 50

Please amend claims **49, 54, 58, 62, 65, and 66** with the following:

Please replace Claim 49 with the following:

A method comprising:

calculating the number of times a key word or phrase appears in a file, the file having a plurality of locations and comprising at least one of the key word or phrase;

for each of the locations of the file:

calculating the number of times the key word or phrase appears in the location; and

dividing the number of times the key word or phrase appears in the location by the number of times the key word or phrase appears in the file to arrive at a relative importance value for the location; and

displaying a vertical scroll bar having a scroll thumb, the scroll bar having a plurality of segments each of which is visually distinctive and associated with one of the plurality of locations having one of the relative importance values, each segment being about the width of the scroll bar and indicating to a user a relative importance of the associated location of the file with respect to other locations in the file based on the relative importance value of the associated location of the file, by scanning only in a vertical direction, wherein in order to navigate directly to a particular file location having one of the relative importance values, a user views only the plurality of segments in the scroll bar, identifies a visually distinctive segment corresponding to the specific relative importance value, and moves the scroll thumb only in a vertical direction directly to the visually distinctive segment.

Please replace Claim 54 with the following:

A method comprising:

identifying locations of interest within a file, the file comprising at least one key word or phrase;

calculating a relative importance value for each of the locations of interest relative to each other, the calculating comprising:

determining the number of times the key word or phrase appears in the file;

calculating the number of times the key word or phrase appears in the location; and

dividing the number of times the key word or phrase appears in the location by the number of times the key word or phrase appears in the file;  
displaying a content window containing a section of the file;  
displaying a vertical scroll bar having a scroll thumb movable vertically in the scroll bar;  
displaying location objects within the scroll bar each of which corresponds to one of the locations of interest of the file having one of the calculated relative importance values, wherein each of the location objects is about the width of the scroll bar, includes visual indications of a relative importance of the corresponding location in the file based on the calculated relative importance value for the corresponding location, and can be scanned by a user in a vertical direction to determine the relative importance of the corresponding location of interest, such that, when the scroll thumb is manipulated to one of the location objects, the section of the file displayed in the content window changes to a section corresponding to the one of the location objects within the scroll bar.

Please replace Claim 58 with the following:

A graphical user interface stored on a computer readable storage medium comprising:

a content display window, wherein the content display window shows content from a file, the file comprising at least one key word or phrase;

a vertical scroll bar, wherein the scroll bar contains a scroll thumb and a plurality of location objects each of which corresponds to a location of interest within the file having a calculated relative importance value, wherein each of the location objects is about the width of the scroll bar, includes visual indications of a relative importance of the corresponding location in the file based on the calculated relative importance value for the corresponding location, and indicates the relative importance of the corresponding location of interest in comparison to other locations in the file through the use of varying display criteria for location objects based on the relative importance values of the corresponding locations of interest, wherein the relative importance values are calculated by:

determining the number of times the key word or phrase appears in the file;

for each of the locations of interest of the file:

calculating the number of times the key word or phrase appears in the location; and

dividing the number of times the key word or phrase appears in the location by the number of times a key word or phrase appears in the file to arrive at the relative importance value for the location.

Please replace Claim 62 with the following:

An apparatus, comprising:

a display;



a file storage storing a file; and

a processor configured to:

identify locations of interest within the file, the file comprising at least one key word or phrase;

calculate the number of times the key word or phrase appears in the file;

for each of the locations of interest of the file:

calculate the number of times the key word or phrase appears in the location; and

divide the number of times the key word or phrase appears in the location by the number of times the key word or phrase appears in the file to arrive at a relative importance value for the location; and

cause the display to display a scroll bar having a scroll thumb and a plurality of location objects, wherein each location object is about the width of the scroll bar and corresponds to one of the identified locations of interest within the file having one of the relative importance values, wherein each location object indicates a relative importance of the corresponding identified location of interest to a user without the user needing to scan in any direction other than along the scroll bar, the relative importance based on the relative importance value of the corresponding identified location of interest in the file.

Claim 65:

On [line 2] of the claim, please change "the display" to --a display--.

Please replace Claim 66 with the following:

A computer readable storage medium storing executable computer code for using a scroll bar appearance to directly display file information, wherein the computer readable storage medium comprises:

executable computer code for obtaining one or more location criteria comprising a key word or phrase to identify a plurality of desired locations in a file, the file comprising at least one of the key word or phrase;

executable computer code for identifying one or more scroll bar display criteria for changing an appearance of location objects within the scroll bar to designate the plurality of desired locations in the file, wherein each location object is about the width of the scroll bar and corresponds to one of the identified desired locations, each location having a relative importance and wherein the change of appearance of each location object is based upon the relative importance of the corresponding desired location with respect to other location objects, wherein the relative importance of each of the locations is determined by:

determining the number of times the key word or phrase appears in the file;

calculating the number of times the key word or phrase appears in the location; and

dividing the number of times the key word or phrase appears in the location by the number of times the key word or phrase appears in the file;

executable computer code for locating the plurality of desired locations in the file according to the one or more location criteria.

***Allowable Subject Matter***

3. Claims 49 and 51-69 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Examiner has carefully considered claims 49 and 51-69. None of the cited arts of records discloses, suggests, nor teaches a method for calculating relative importance values for locations in a file by, for each of the locations of the file: calculating the number of times the key word or phrase appears in the location; and dividing the number of times the key word or phrase appears in the location by the number of times the key word or phrase appears in the file to arrive at a relative importance value for the location; and displaying a vertical scroll bar having a scroll thumb, the scroll bar having a plurality of segments each of which is visually distinctive and associated with one of the plurality of locations having one of the relative importance values, each segment being about the width of the scroll bar and indicating to a user a relative importance of the associated location of the file with respect to other locations in the file based on the relative importance value of the associated location of the file, as recited in independent claim 49. Davis (Pub. No. US 2005/0091604 A1) discloses adding focus indicia to a scroll bar to identify points of focus [paragraph 14] of a document [paragraph 29]. A user may input an item to be tracked [paragraph 32] and a graphic can be created to provide

the user with a visual indication of the position of the tracked item relative to the other items [paragraph 34; figure 10]. Various techniques can be used to differentiate the graphics such as color-coding and/or different shape and/or size [paragraph 51]. Various techniques can be employed to facilitate determining which tag corresponds to which focus [paragraph 62]. However, Davis does not expressly teach the limitations above.

Millic-Frayling et al (U.S. Patent No. 7,660,813 B2) discloses receiving a user search query [column 13, lines 11-19] and highlighting terms based on analysis of relevance [column 13, lines 27-44]. Relevance of certain passages is determined by computing a score using well known relevance matching functions [column 13, lines 44-63; figure 5]. However, Millic-Frayling does not teach the limitations above. Similar subject matter is disclosed in independent claims 49, 54, 58, 62, and 66.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALVIN H. TAN whose telephone number is (571)272-8595. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on 571-272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alvin H Tan/  
Examiner, Art Unit 2173